

## Message Text

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ORIGIN COA-02

INFO OCT-01 ARA-16 ISO-00 PM-07 SCI-06 COME-00 DODE-00

NSF-04 RSC-01 /037 R

DRAFTED BY COA:RTLEROY

APPROVED BY COA:WGVANCAMPEN

ARA/EP MR. WEBER

PM/ISO LCOL FLEMINGS

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R 220100Z DEC 73

FM SECSTATE WASHDC

TO AMEMBASSY QUITO

INFO AMCONSUL GUAYAQUIL

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EO 11652 GDS

TAGS OCLR TGEN TPHY EC

SUB: RESEARCH CRUISE USNS HAYES

1. NAVAL RESEARCH VESSEL, USNS HAYES WILL BE OPERATING IN AREA OFF ECUADOR COAST FROM APPROX 10 FEBRUARY TO 2 MARCH 1974. VESSEL DOING TWO PROJECTS. FIRST FROM 10 TO 24 FEBRUARY WILL BE COLLECTING DATA ON FOG AND WEATHER CHARACTERISTICS. AREA TO BE INVESTIGATED IS APPROXIMATELY BOUNDED BY LATITUDES 5 NORTH AND 5 SOUTH, LONGITUDE 85 TO 90 WEST. PARAMETERS TO BE INVESTIGATED ARE AIR TEMPERATURE, HUMIDITY, WATER TEMPERATURE, WIND SPEED AND DIRECTION, SPECTRUM OF FOG DROPLET SIZE, AND SALT CONTENT OF FOG DROPLETS. DATA WILL BE SAMPLED FROM WATER SURFACE TO, IN SOME CASES, 1000 FOOT ALTITUDE. AREA OFF GALAPAGOS HAS HIGHEST KNOWN FREQUENCY OF FOG TYPE WHICH DEVELOPS INDEPENDANTLY OF COASTAL INFLUENCES. CRUISE IS DESIGNED TO GATHER INFORMATION ON FOG CLIMATOLOGY, FOG INDUCING METEOROLOGY AND MICROPHYSICS OF MARINE FOGS. DATA GATHERED AND TECHNIQUES EMPLOYED WILL ASSIST IN DEVELOPMENT OF INSTRUMENTATION SYSTEM FOR REMOTELY

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INTERROGATED WEATHER BUOY BEING PLANNED BY ATMOSPHERIC

PHYSICS BRANCH OF NAVAL RESEARCH LABORATORY'S OCEAN SCIENCES DIVISION.

2. SECOND PORTION OF CRUISE IS CHEMICAL OCEANOGRAPHY. OBJECTIVES ARE: DETERMINATION OF TRACE GASES IN SEA

WATER AND ATMOSPHERE, WITH PARTICULAR ATTENTION TO AREA OF COASTAL UPWELLING; TO MEASURE BIOLOGICAL PRODUCTIVITY OF SEA WATER, AND ATTEMPT TO FIND CORRELATION BETWEEN PRODUCTIVITY AND TRACE GAS DETERMINATIONS; COLLECT SAMPLES AT FERNANDINA ISLAND, IN WATER AND ON ISLAND, FOR MERCURY ANALYSIS; AND FINALLY, TO MEASURE ATMOSPHERIC RADON CONCENTRATIONS AND COLLECT MARINE AEROSOLS TO STUDY PACIFIC AIR MASS MOVEMENTS.

3. VESSEL ITINERARY:

ARRIVE	PORT	DEPART
	TAMPA	3 FEBRUARY 74
7 FEB	BALBOA	10 FEB
24 FEB	GUAYAQUIL	27 FEB
1 MAR	FERNANDINA	2 MAR
17 MAR	PEARL HARBOR	

4. USNS HAYES (T-AGOR 16) IS 246 FT, 3100 TON CATAMARAN HULLED RESEARCH VESSEL OPERATED BY CIVILIAN CREW OF MILITARY SEALIFT COMMAND IN SUPPORT OF MARINE SCIENCE ACTIVITIES OF NAVAL RESEARCH LAB. MASTER IS JAQUES CRAMPON, WITH OFFICER/CREW COMPLEMENT OF 45, ALSO ABOARD IS SCIENTIFIC PARTY OF APPROX 25. DATA AND RESULTS WILL BE FURNISHED GOE FROM BOTH CRUISES. ON BOARD PARTICIPATION CAN BE ARRANGED THRU: (FOR FIRST PORTION) DR LOTHAR H. RUHNKE, CODE 8320  
NAVAL RESEARCH LAB  
WASH DC 20375  
FOR SECOND: DR RALPH GOODMAN CODE 8000,  
NAVAL RESEARCH LAB, WASH DC

5. ACTION: SINCE VESSEL TRACK MAY ENTER 3 MILES ON FIRST LEG(DEPENDING ON WEATHER/CLIMATE CONDITIONS) AND HAYES WILL BE ANCHORING OFF FERNANDINA ISLAND FOR 2 DAYS FOR LIMITED OFFICIAL USE

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SAMPLE COLLECTING, REQUEST POST INITIATE CLEARANCE REQUEST FOR SCIENTIFIC RESEARCH GOE TERRITORIAL SEAS ABOVE DATES. PARTICIPANTS FOR FIRST COULD BE ACCOMMODATED VIA CURRENTLY UNSCHEDULED CALL, THOSE FOR SECOND WOULD BOARD GUAYAQUIL, DEPART GALAPAGOS. RUSH

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## Message Attributes

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